UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

August 1962

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

BLUEFIN TUNA TAGGED

From August 13 to 23, 1962, the U. S. Bureau of Commercial Fisheries Biological Laboratory, San Diego in cooperation with the California Department of Fish and Game, released 960 tagged bluefin tuna from the purse seiner West Point. Releases centered about 30 miles north of the 176-Fathom Spot (30° N., 117° W.), the 43-Fathom Spot (32°36' N., 118°06' W.), and 20 miles west of the north end of San Clemente Island (33°00' N., 119°00' W.). These releases are the first of a series designed to provide vital information on migration, availability and other aspects of the life history of this little-known tuna in the eastern north Pacific.

Tags used are of standard yellow plastic dart-type design, identical to those used by the Tuna Commission for marking of yellowfin and skipjack, and are attached to the left side of the fish below and aft of the second dorsal fin. The tags are marked "Return to California Department of Fish and Game". If you should catch a tagged bluefin, please preserve the specimen. Upon your return to port, contact waterfront representatives of the Inter-American Tropical Tuna Commission, California Department of Fish and Game, or Bureau of Commercial Fisheries. Any one of these representatives will measure and check the condition of the fish, as well as take the tag from it. Be sure to record the date and location of capture. There is a $1.00 reward for the return of each properly documented tag.

SHARK-TUNA RELATIONSHIPS UNDER STUDY

Scientists at the U. S. Bureau of Commercial Fisheries Biological Laboratory, San Diego have initiated a study of sharks and their relationships with the tropical tuna species. A total of 160 tagged sharks has been released. Of this number 70 were released from Royal Pacific off Guatemala, Colombia, and Ecuador; the remainder were released from West Point at the Revilla Gigedo Islands.

The tags are monel metal straps attached to the dorsal fin of the shark. A colored vinyl disk has been added on the latest tags to make them more conspicuous. Purse seine fishermen are requested to look over all sharks taken in purse seine hauls - a $1.00 reward will be paid to persons recovering the tags and noting the date and place of capture.

TOPOGRAPHIC CHARTS

Topographic Chart No. 21 which shows seamounts and protuberances rising above the ocean floor from 11° S. to 18° S. latitude and from 70° W. to 80° W. longitude was printed in August. Charts may be obtained from Inter-American Tropical Tuna Commission representatives or by writing directly to our San Diego address.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN AUGUST 1962

Acknowledgments

The following organizations and stations contributed data for the August 1962 charts:

U. S. Weather Bureau, San Diego, California
U. S. Weather Bureau Ship Visitation Office, Long Beach, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U. S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U. S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
California Department of Fish and Game M/V Alaska
Fish Commission of Oregon
Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico
Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; D. Reyes at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; R. Gomez at La Libertad, Ecuador; G. Villar at Talara, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California and Guayaquil, Ecuador
Kelco Company, San Diego, California
Oregon State University by Bruce Wyatt
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; G. J. Skinner at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ships Santa Maria, and Royal Pacific

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

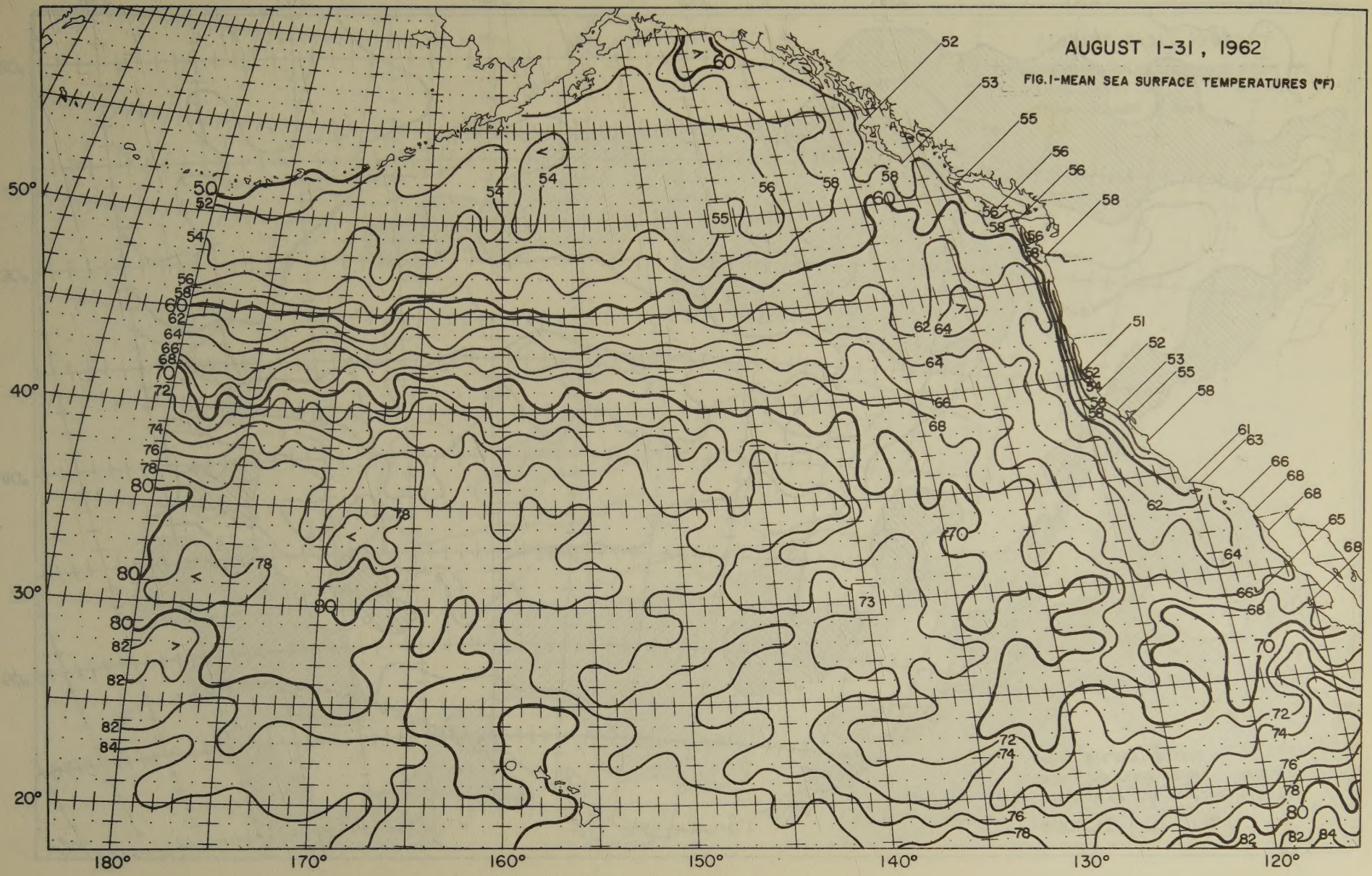
Figure 3.--Deviation of sea surface temperatures (°F) from those of August 1961. Hatched areas are colder than 1961.

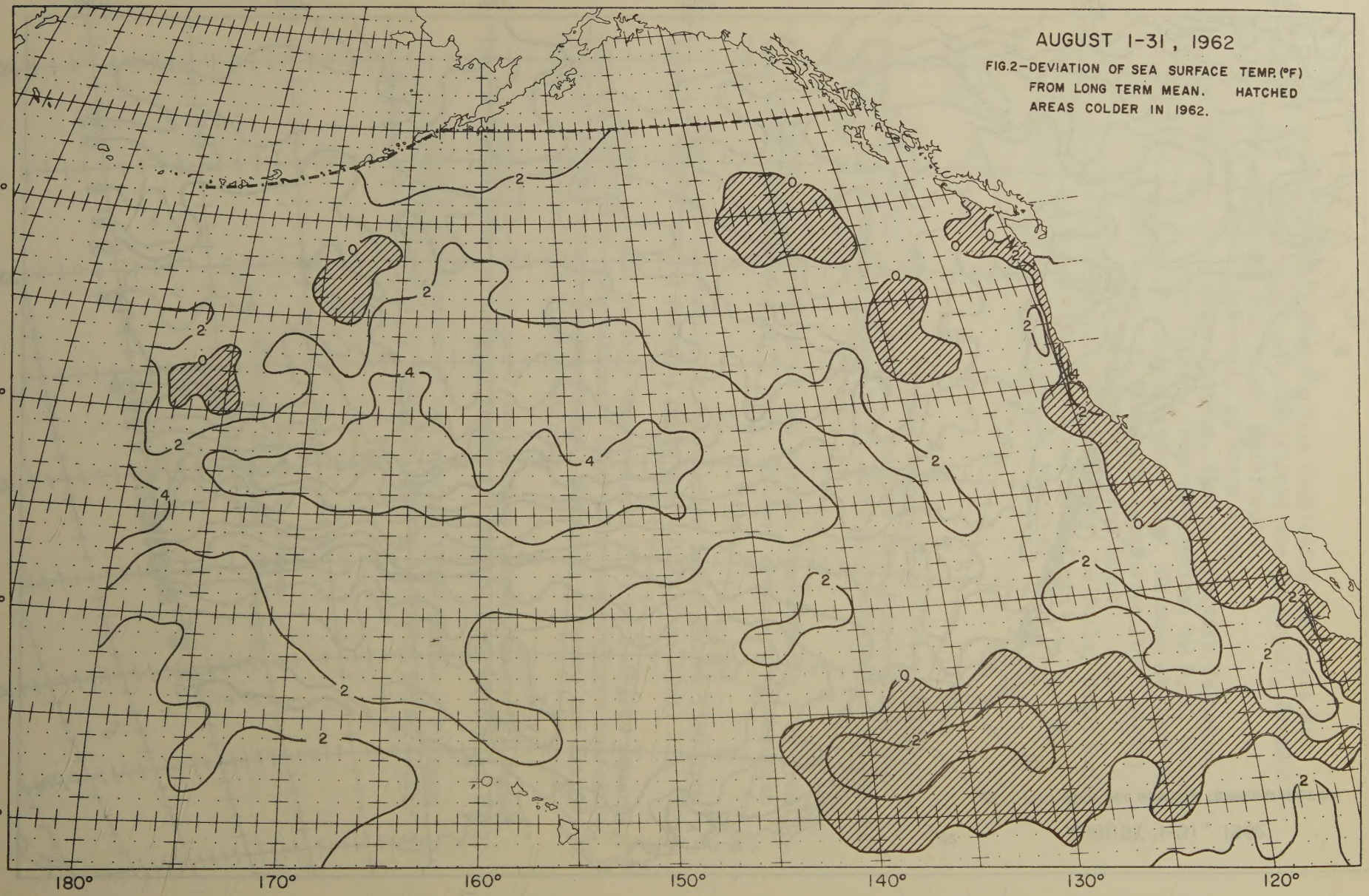
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

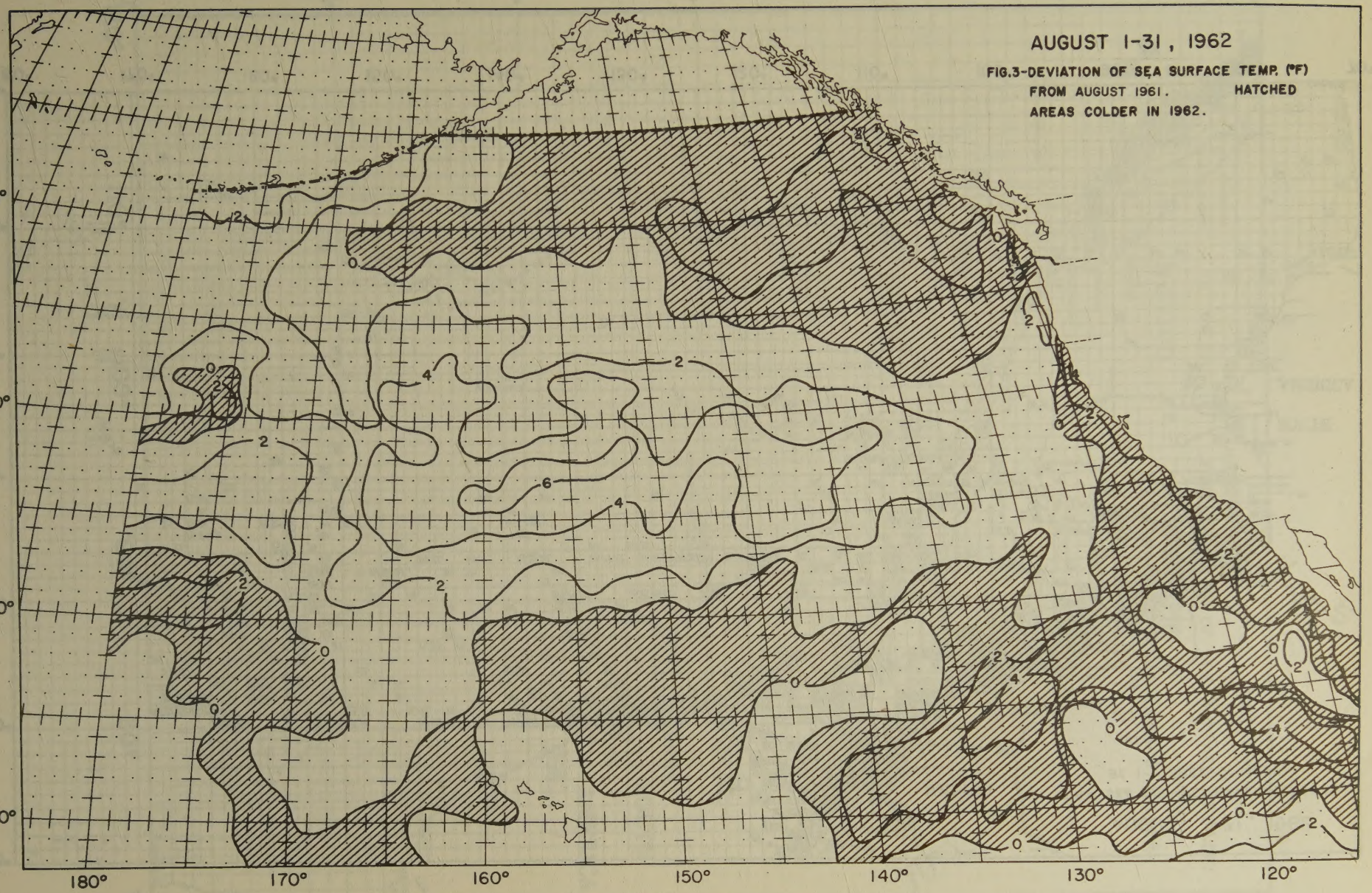
Figure 5.--Deviation of sea surface temperatures (°F) August 1962 - August 1961 by 1-degree squares. Shaded areas colder in 1962.

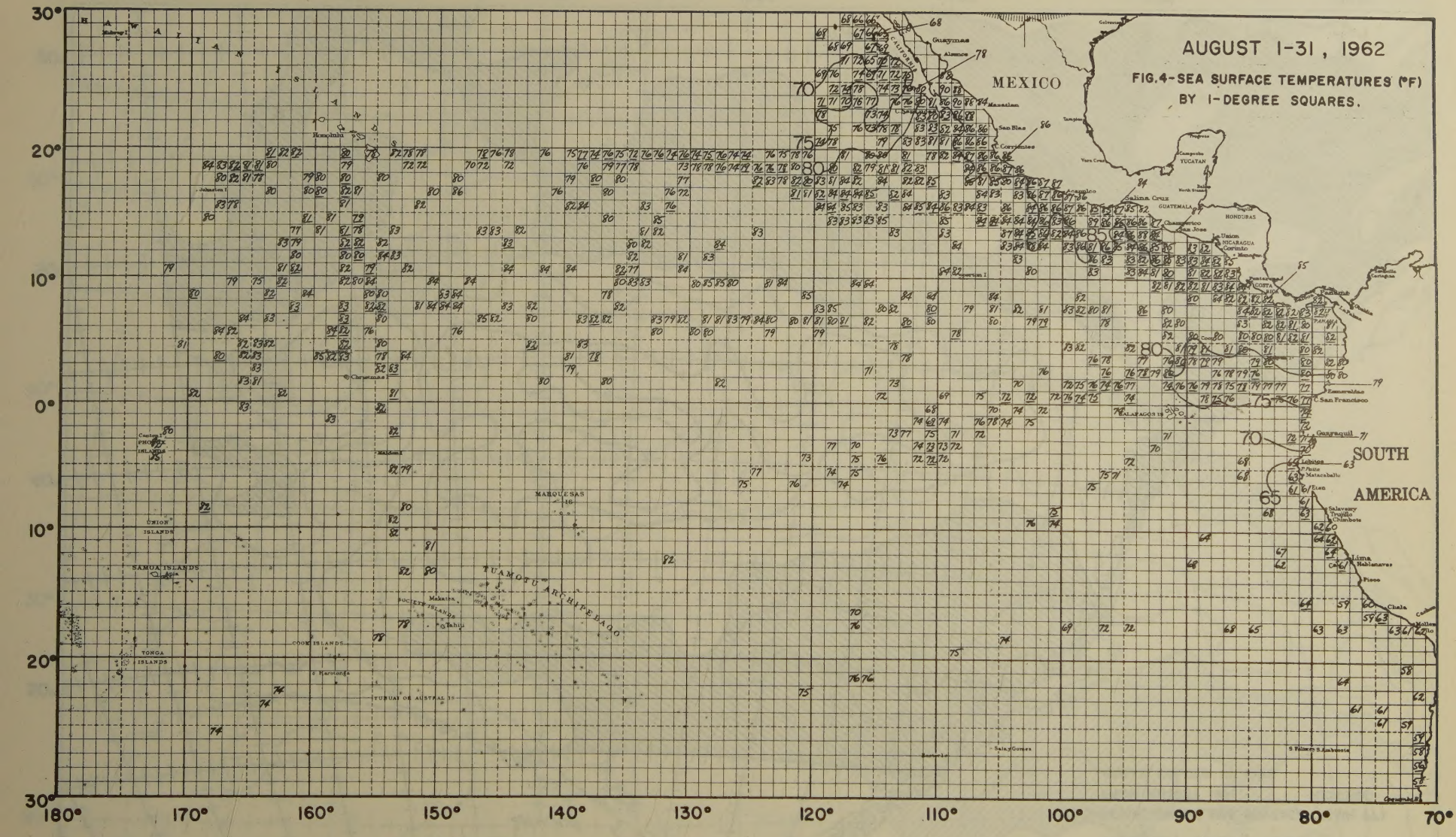
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1962.

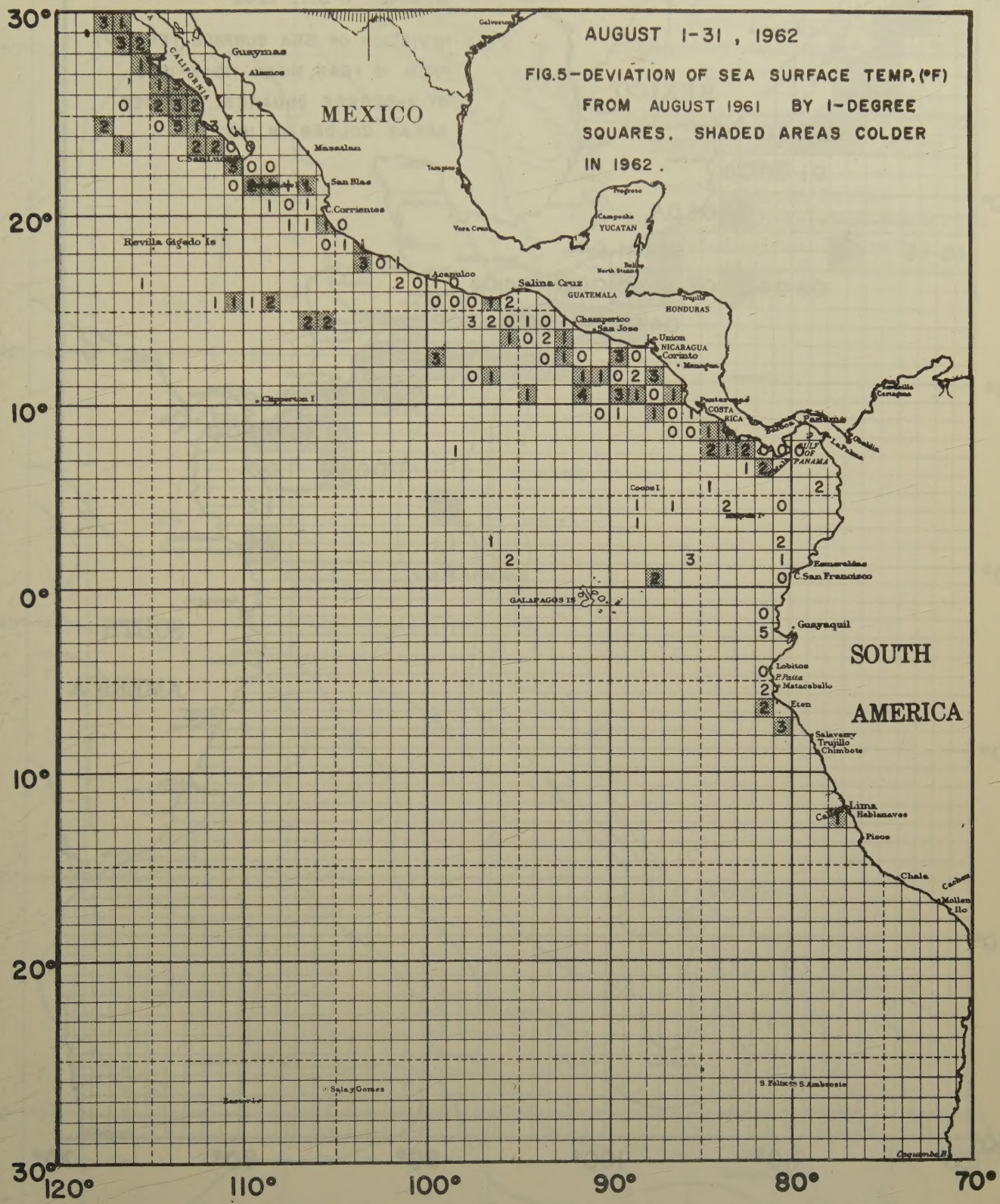
James A. Renner
Fishery Biologist (Research)

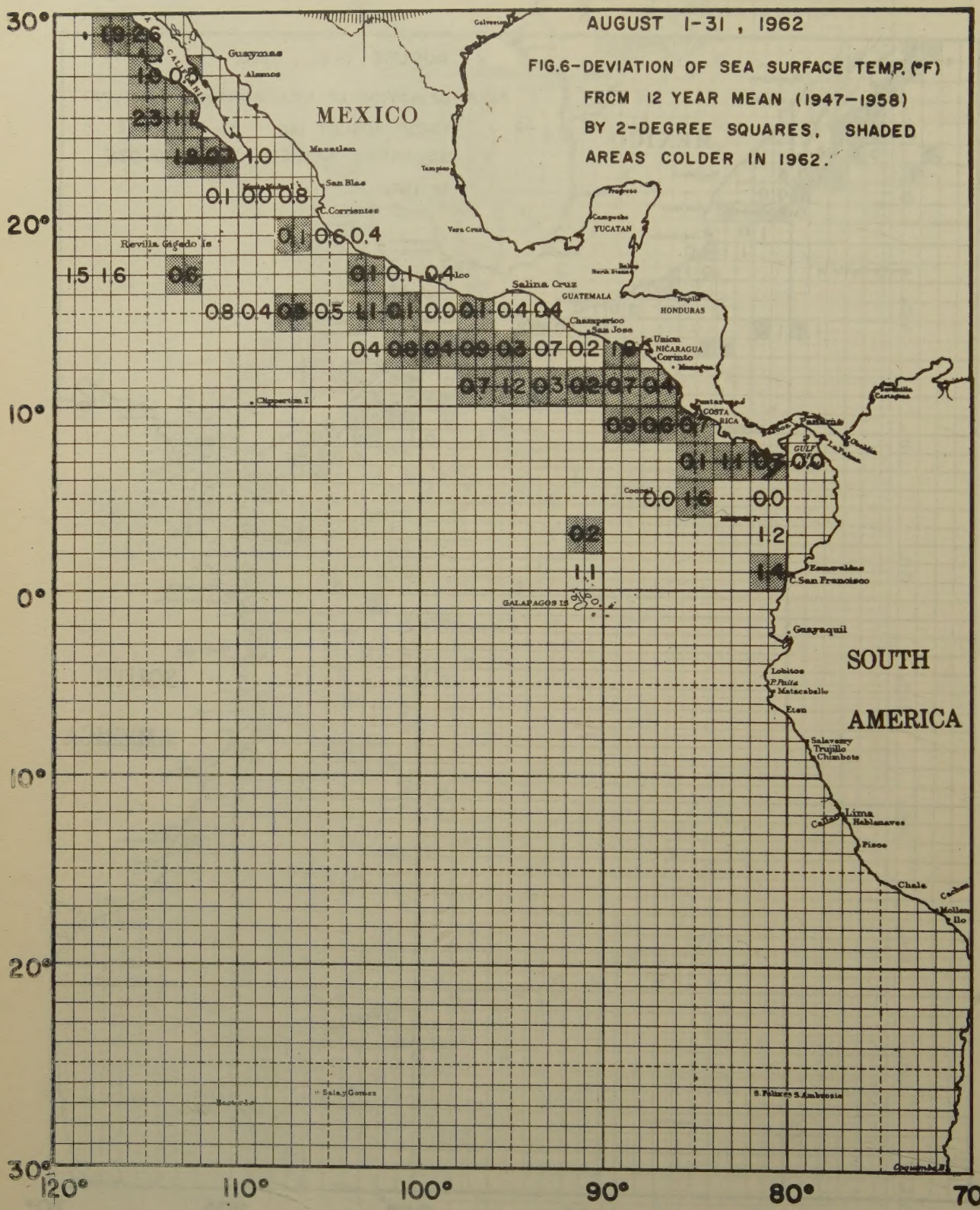

AUGUST 1-31, 1962
FIG.1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

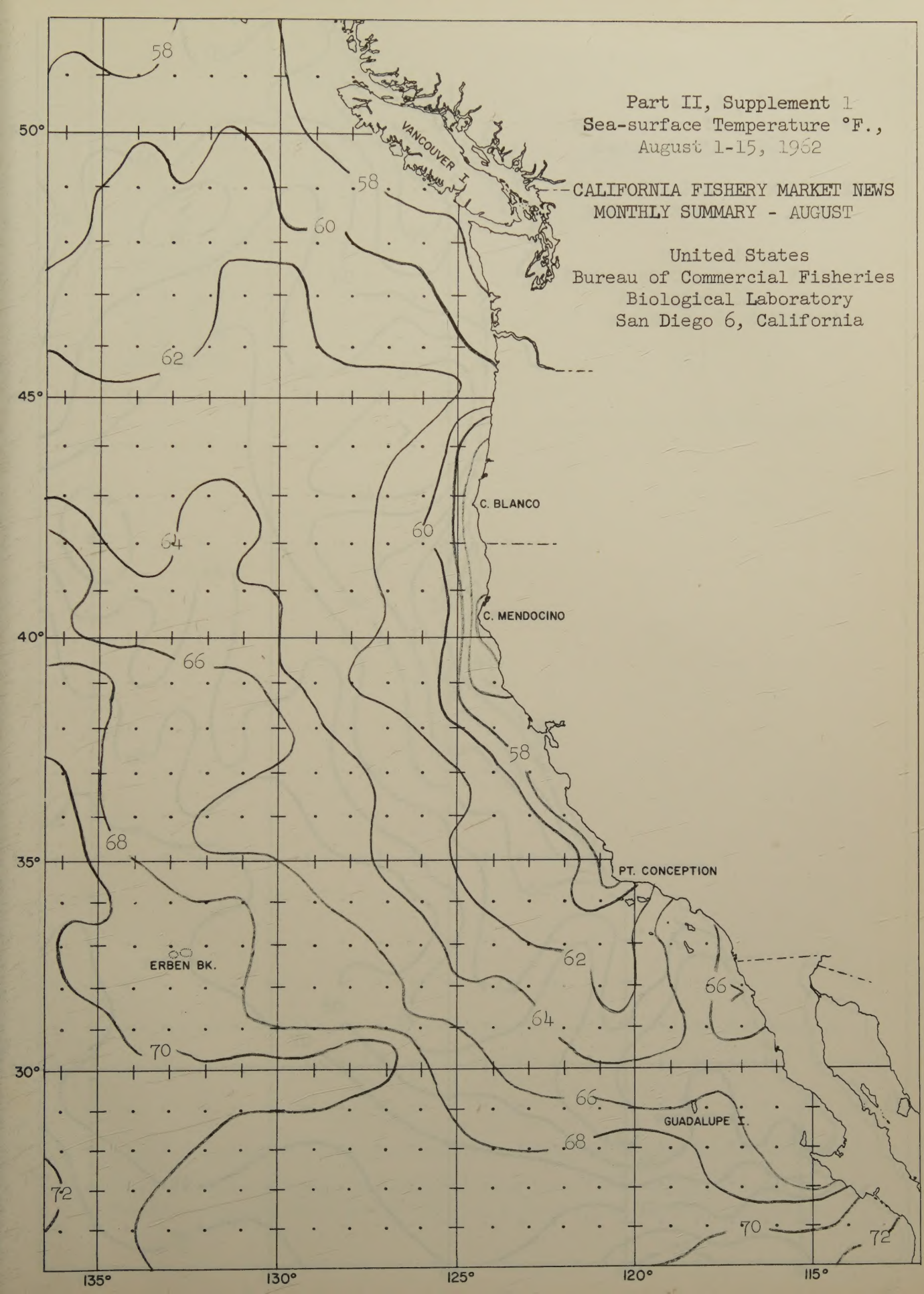

AUGUST 1-31, 1962
FIG.2—DEVIATION OF SEA SURFACE TEMP.(°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

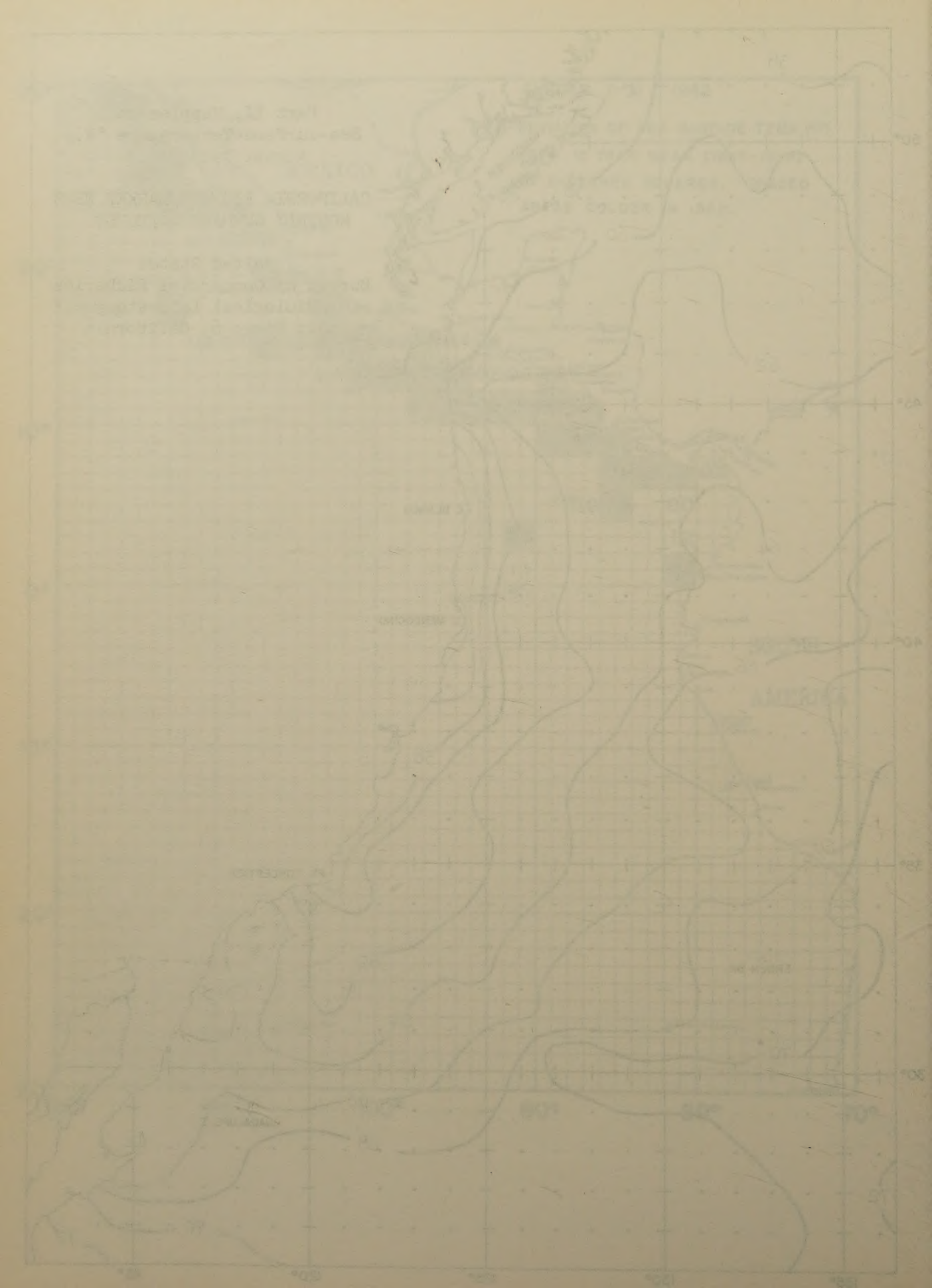

AUGUST 1-31, 1962
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM AUGUST 1961. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

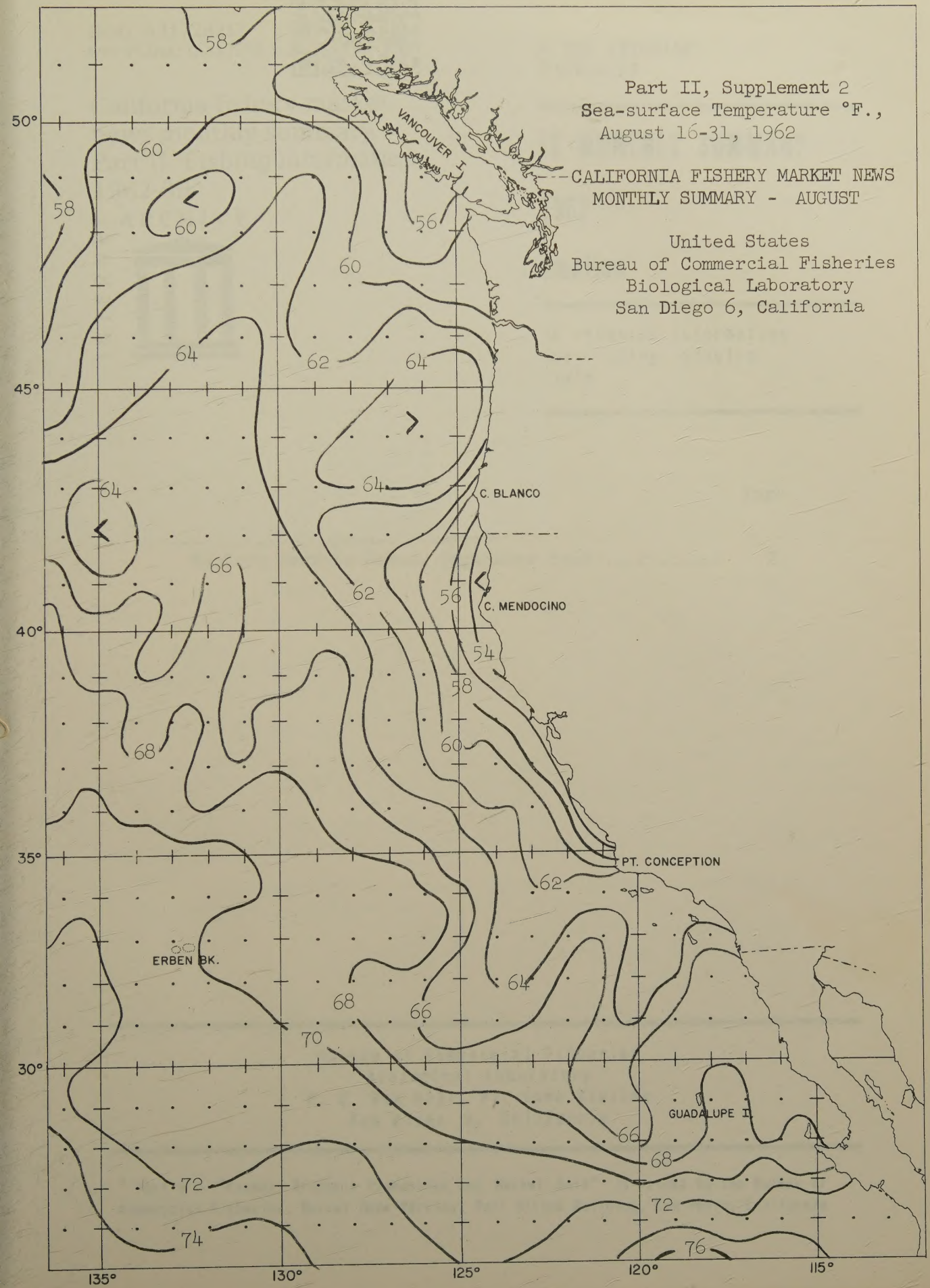

AUGUST 1-31, 1962
FIG. 4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN ISLANDS
Honolulu
MARQUESAS
TUAMOTU ARCHIPELAGO
SAMOA ISLANDS
UNION ISLANDS
TONGA ISLANDS
COOK ISLANDS
Tahiti
Rarotonga
Guayaquil
Lima
Callao
Pisco
Chala
Salaverry
Trujillo
Chimbote
Paita
Talara
Manzanillo
Acapulco
Salina Cruz
Puerto Corinto
San Jose
Panama
Cristobal
Balboa
Cartagena
Maracaibo
Caracas
Curacao
Aruba
Trinidad
Barbados
Galapagos Is.
Cocos Is.
Clipperton I.
Easter I.
Juan Fernandez Is.
San Felix I.
San Ambrosio
Callao
Arica
Iquique
Antofagasta
Coquimbo
Valparaiso
San Antonio
Talcahuano
Corral
Puerto Montt
Chiloe
Guaymas
Mazatlan
San Blas
Acapulco
Salina Cruz
Puerto Corinto
San Jose
Panama
Cristobal
Balboa
Cartagena
Maracaibo
Caracas
Curacao
Aruba
Trinidad
Barbados
Galapagos Is.
Cocos Is.
Clipperton I.
Easter I.
Juan Fernandez Is.
San Felix I.
San Ambrosio
Callao
Arica
Iquique
Antofagasta
Coquimbo
Valparaiso
San Antonio
Talcahuano
Corral
Puerto Montt
Chiloe
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°


AUGUST 1-31, 1962
FIG.5-DEVIATION OF SEA SURFACE TEMP.(°F) FROM AUGUST 1961 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1962.
MEXICO
SOUTH AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
Panama
YUCATAN
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
Corinto
Chipperton I
Cocos I
GALAPAGOS IS
Guayaquil
Lobitos
P. Pasta
Eten
Salaverry
Trujillo
Chimbote
Lima
Pisco
Chala
Mollendo
S. Felix
S. Ambrosio
Sala y Gomez
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


AUGUST 1-31, 1962
FIG.6-DEVIATION OF SEA SURFACE TEMP. (°F) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1962.
MEXICO
SOUTH AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
YUCATAN
GULF
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Salina Cruz
Champerico
San Jose
Corinto
Clipperton I
Cocos I
Guayaquil
Lobitos
Talara
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Salas y Gomez
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


Part II, Supplement 1
Sea-surface Temperature °F.,
August 1-15, 1962
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - AUGUST
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
58
60
62
64
66
68
70
72
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°




Part II, Supplement 2
Sea-surface Temperature °F.,
August 16-31, 1962
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - AUGUST
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
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30°
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130°
125°
120°
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58
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